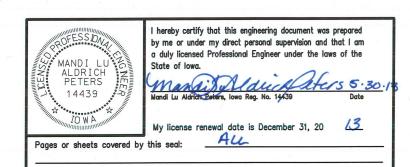
# IOWA DEPARTMENT OF NATURAL RESOURCES

# CONSTRUCTION DOCUMENTS FOR WAUBONSIE STATE PARK BOAT RAMP & SHORELINE ARMORING FREMONT COUNTY, IOWA

PROJECT # 12-04-36-02





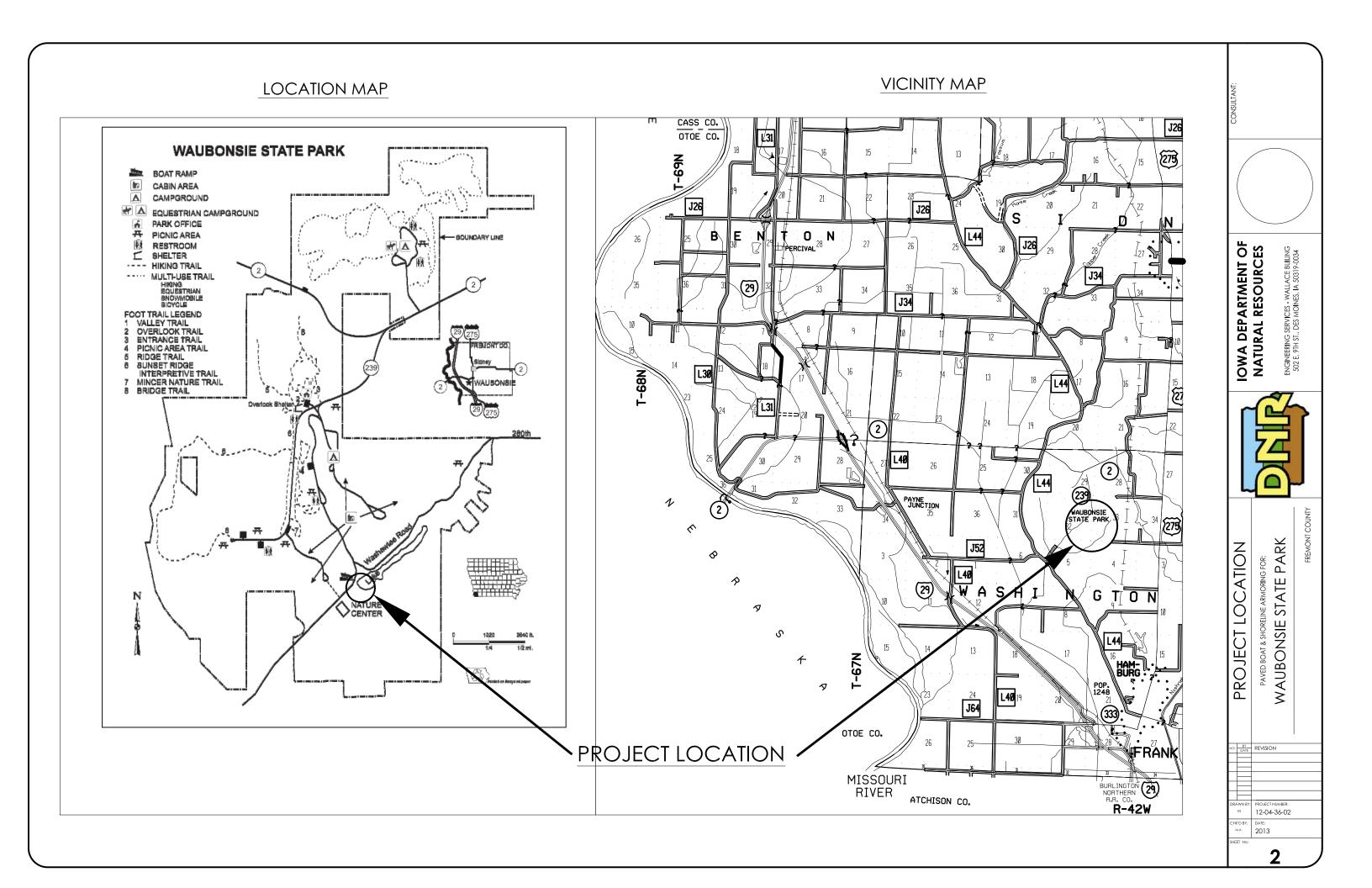


DIRECTORY					
PROJECT MANAGER		CONSTRUCTION INSPECTOR			
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES		
ADDRESS	502 EAST 9TH STREET	ADDRESS	3452 KINGBIRD AVENUE		
CITY,STATE,ZIP	DES MOINES, IA, 50319	CITY,STATE,ZIP	BRYTON IA, 50042		
CONTACT	MANDI ALDRICH	CONTACT	MARK JOHNSON		
TELEPHONE	515-205-1968	TELEPHONE	515-250-3713		
FAX	515-281-8685	FAX			
EMAIL	Mandi.Aldrich@dnr.iowa.gov	EMAIL	Mark.Johnson@dnr.iowa.gov		

THIS PROJECT INVOLVES PAVING OF BOAT RAMP AND PLACEMENT OF RIP RAP NEAR BOAT RAMP TO FACILITATE BOATERS RETRIEVE THEIR BOATS AND PROVIDE SHORELINE PROTECTION NEAR THE BOAT RAMP AND INCIDENTAL WORK AS REQUIRED BY THE D.N.R CONSTRUCTION INSPECTO

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ENGINEERING BUREAU CHIEF DATE	

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		IOWA DEPARTMENT OF	NATURAL RESOURCES	ENGINEERING SERVICES - WALLACE BUILING	502 E. 9TH ST., DES MOINES, IA 503 19-0034
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		COVER SHEET	PAVED BOAT RAMP & SHORELINE ARMORING FOR:	WAUBONSIE STATE PARK	FREMONT COUNTY
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### GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND NOTIFY PROJECT ENGINEER: ALDRICH MANDI (515)-205-1698
  DISTRICT ENGINEER INSPECTOR MARK JOHNSON (515)-250-3713 FOR ANY DISCREPANCIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO EXISTING FACILITIES RESULTING FROM THEIR NEGLIGENCE OR THAT OF A SUB-CONTRACTOR, AND SAID REPAIRS SHALL BE APPROVED BY THE OWNER.
- ALL WORKS SHALL BE CONFORM TO AND BE PREFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING WASTE AREA OR DISPOSAL FOR EXCESS MATERIAL (EXCAVATED, CONCRETE, OR OTHER) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT. NO MATERIAL SHALL BE DISPOSED ON SITE, UNLESS SPECIFICALLY STATED IN THE PLANS OR BY THE D.N.R INSPECTOR.
- ALL HOLES RESULTING FROM OPERATIONS OF THE CONTRACTOR, INCLUDING GUARD RAIL POSTS, FENCE POST, UTILITY POLES OR PIERS, SHALL BE FILLED AND CONSOLIDATED TO FINISHED GRADE AS DIRECTED BY THE ENGINEER TO PREVENT FUTURE SETTLEMENT. THE VOIDS SHALL BE FILLED AS SOON AS PRACTICAL—PREFFERABLY THE DAY CREATED AND NOT LATER THAT THE FOLLOWING DAY. ANY PORTION OF THE RIGHT OF WAY OR PROJECT LIMITS(INCLUDING BORROW AREAS AND OPERATIONS SITES) DISTURBED BY ANY SUCH OPERATIONS SHALL BE RESTORED TO AN APPLICABLE CONDITIONS. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEMS IN THIS PROJECT.
- THE CONTRACTOR IS EXPECTED TO HAVE MATERIALS, EQUIPMENTS, AND LABOR AVAILABLE ON A DAILY BASIS TO INSTALL AND MAINTAIN EROSION CONTROL FEATURES OF THE PROJECT. THIS MAY INVOLVE SEEDING, SILT FENCE, ROCK DITCH CHECKS, SILT BASINS OR SILT DIKES.
- THE CONTRACTOR SHALL SHAPE GRADED AREA TO MAINTAIN SURFACE DRAINAGE . ALL ELEVATIONS ARE TO FINISH GRADE.
- TOP SOIL SHALL BE SPREAD TO A MINIMUM THICKNESS OF 6 INCHES ON ALL DISTURBED UNPAVED AREAS.
- THE CONTRACTORS SHALL SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS. USE CLASS 'C' SEED MIX
- BACK FILL TO THE TOP OF ALL ROCK OR PAVED SURFACES.
- THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR THE EXISTING FACILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING UNDERGROUND FACILITIES SHOWN. IT IS THE RESPONSIBLY OF THE CONTRACTOR TO CONTACT ALL PUBLIC AND / OR PRIVATE UTILITIES SERVING THE AREA TO DETERMINE THE PRESENT EXTENT AND LOCATION OF THEIR FACILITIES BEFORE BEGINNING WORK.
- THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROPER UTILITY IMMEDIATELY UPON BREAKING OR DAMAGE TO ANY UTILITY LINE OR APPURTENANCE, OR THE INTERRUPTION OF THE SERVICE. HE SHALL NOTIFY THE PROPER UTILITY INVOLVED. IF THE UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED.
- CONTRACTOR TO PROTECT ALL UTILITY, PAVING, BUILDING, ETC. OUTSIDE OF LIMITS OF PROPOSED CONSTRUCTION
- CONTRACTOR SHALL SEED, FERTILIZE AND MULCH ALL DISTURBED AREAS (ACCESS ROUTES). USE CLASS 'C' SEED MIX.
- PROTECT ALL EXISTING TREE AND VEGETATION UNLESS OTHERWISE NOTED.
- ANY SPOIL MATERIAL THAT MAY BE GENERATED DURING THE CONSTRUCTION SHALL BE DISPOSED OF AT A LOCATION THAT IS COORDINATED WITH THE D.N.R INSPECTOR. SAID MATERIAL IS CONSIDERED INCIDENTAL TO THE CONTRACT.

	ESTIMATED PROJECT QUANTITIES		
ITEM NO.	ITEM		TOTAL
1	CLEARING AND GRUBBING	LS	1
2	CLASS 'E' RIPRAP	TONS	193
3	GABION STONE, EROSION STONE, 4"-8" NOMINAL	TONS	58
4	STRUCTURAL CONCRETE CLASS 'C' 6"	S.Y	167
5	CLASS 'A' CRUSHED STONE	TONS	105
6	PAVEMENT REMOVAL	S.Y	35
7	PARKING LOT, PCC 6"	S.Y	11
8	SITE RESTORATION	L.S	1
9	MOBILIZATION	L.S	1
10	CONSTRUCTION STACKING	L.S	1

	ESTIMATED REFERENCE NOTE
ITEM NO.	ITEM
2	CLASS 'E' RIPRAP INCLUDES 193 TONS FOR SHORELINE ARMORING
3	INCLUDES 193 TONS FOR SHORELINE ARMORING  GABION STONE INCLUDES 142 TONS FOR BOAT RAMP SHOULDERS, 3 TONS FOR FILL UNDER THE RAMP AND 13 TONS FOR THE END OF THE BOAT RAMP

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ENGINEERING SERVIC 502 E. 9TH ST., DES M



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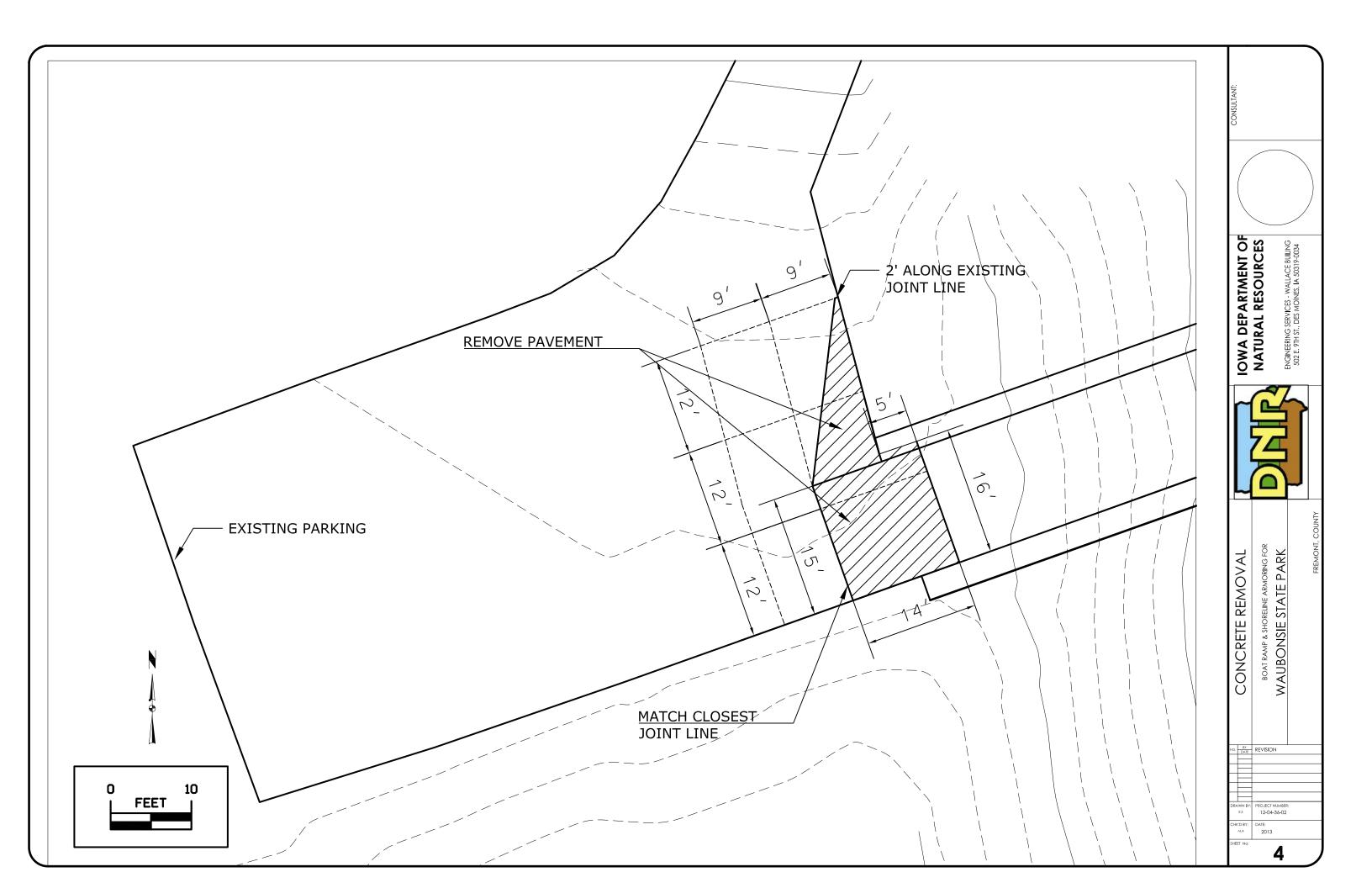
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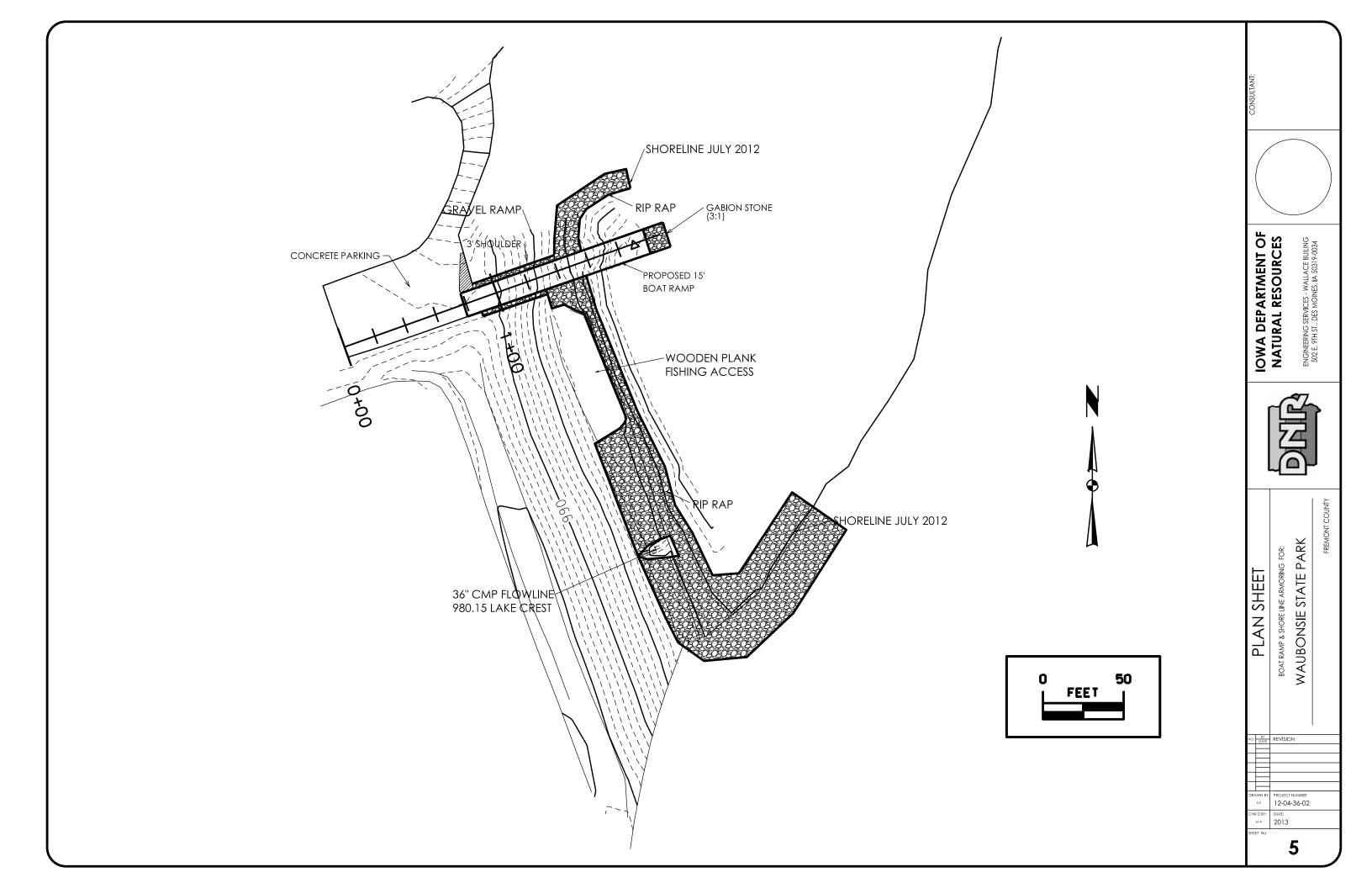
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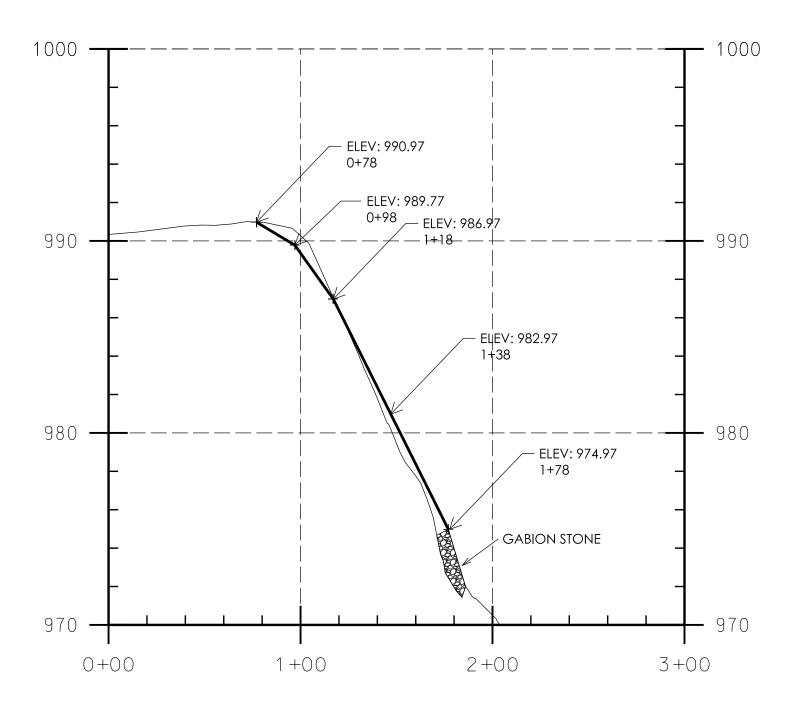
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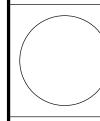
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# Ramp Center line!





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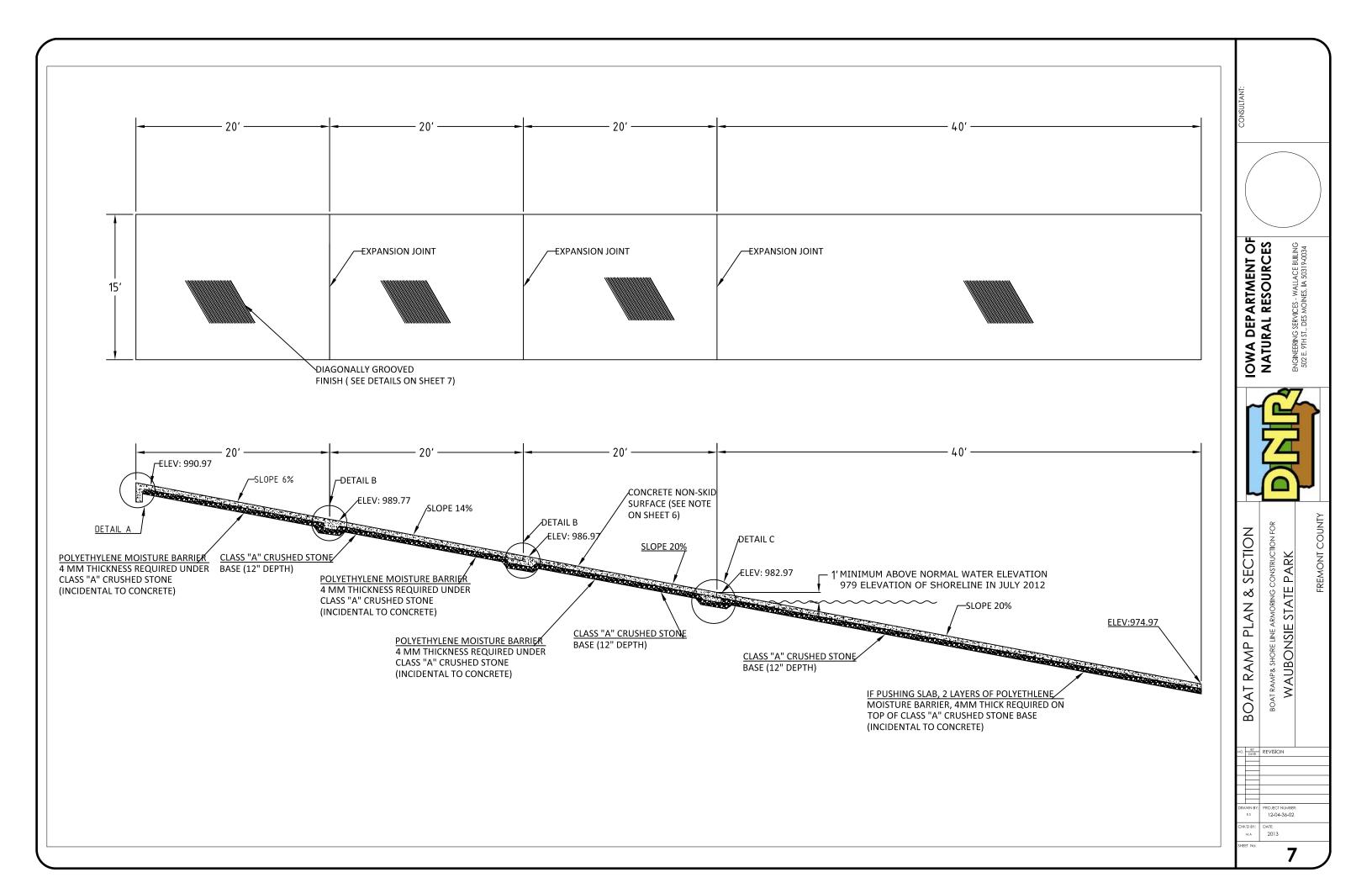
BOAT RAMP & SHORE LINE ARMORING FOR: WAUBONSIE STATE PARK PROFILE

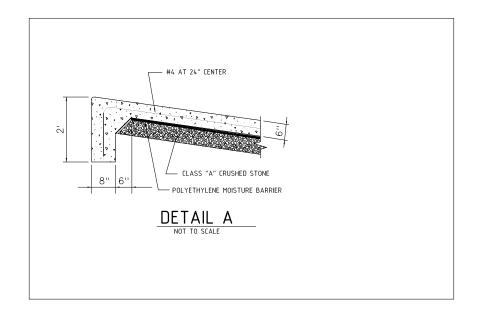
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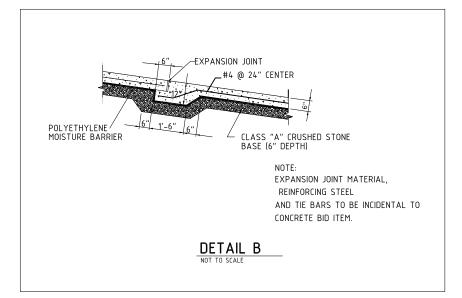
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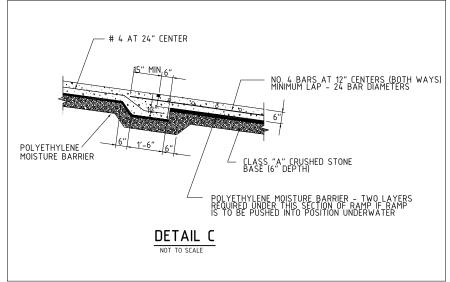
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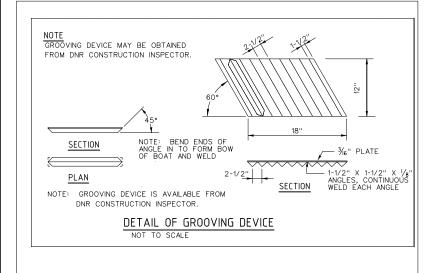
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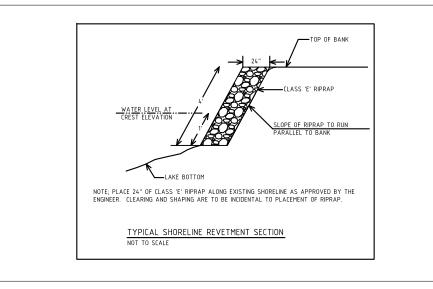


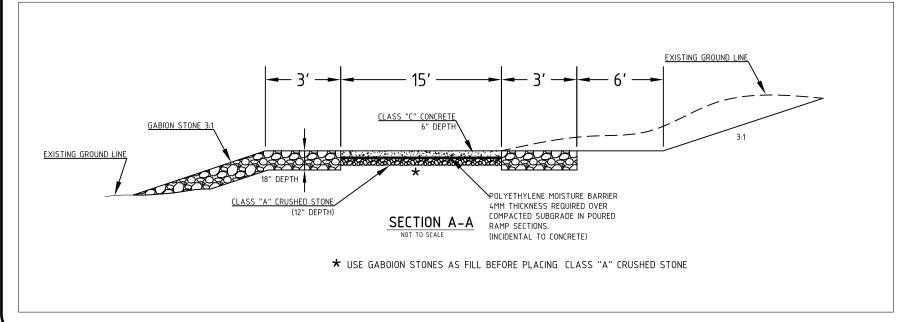






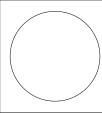






## **BOAT RAMP NOTES**

- -ALL CONCRETE SHALL CONFORM TO CLASS "C" MIX 4 I. D.O.T. SPECIFICATION SERIES 2009
- -ALL EXPOSED EDGES OF CONCRETE TO BE BEVELED WITH 3/4" CHAMFER STRIPS
- -THE TOP 1" OF ALL EXPANSION JOINTS TO RECEIVE A SILICONE BASE POURING TYPE SEALER
- -EXPANSION JOINTS 3/4" PREFORMED RESILIENT FILLER MATERIAL
- -REINFORCING STEEL GRADE 40 DEFORMED
- -WIRE FABRIC MINIMUM LAP = 6"
- -THAT PORTION OF THE RAMP TO BE PLACED BELOW THE WATERLINE MAY BE FORMED ABOVE THE WATERLINE AND CAREFULLY PUSHED INTO POSITION UNDERWATER TO THE LOCATION AND ELEVATION AS SHOWN ON THE PLAN AND AS APPROVED BY THE INSPECTOR. THE REMAINING SECTIONS OF THE RAMP SHALL BE FORMED AND POURED IN PLACE.

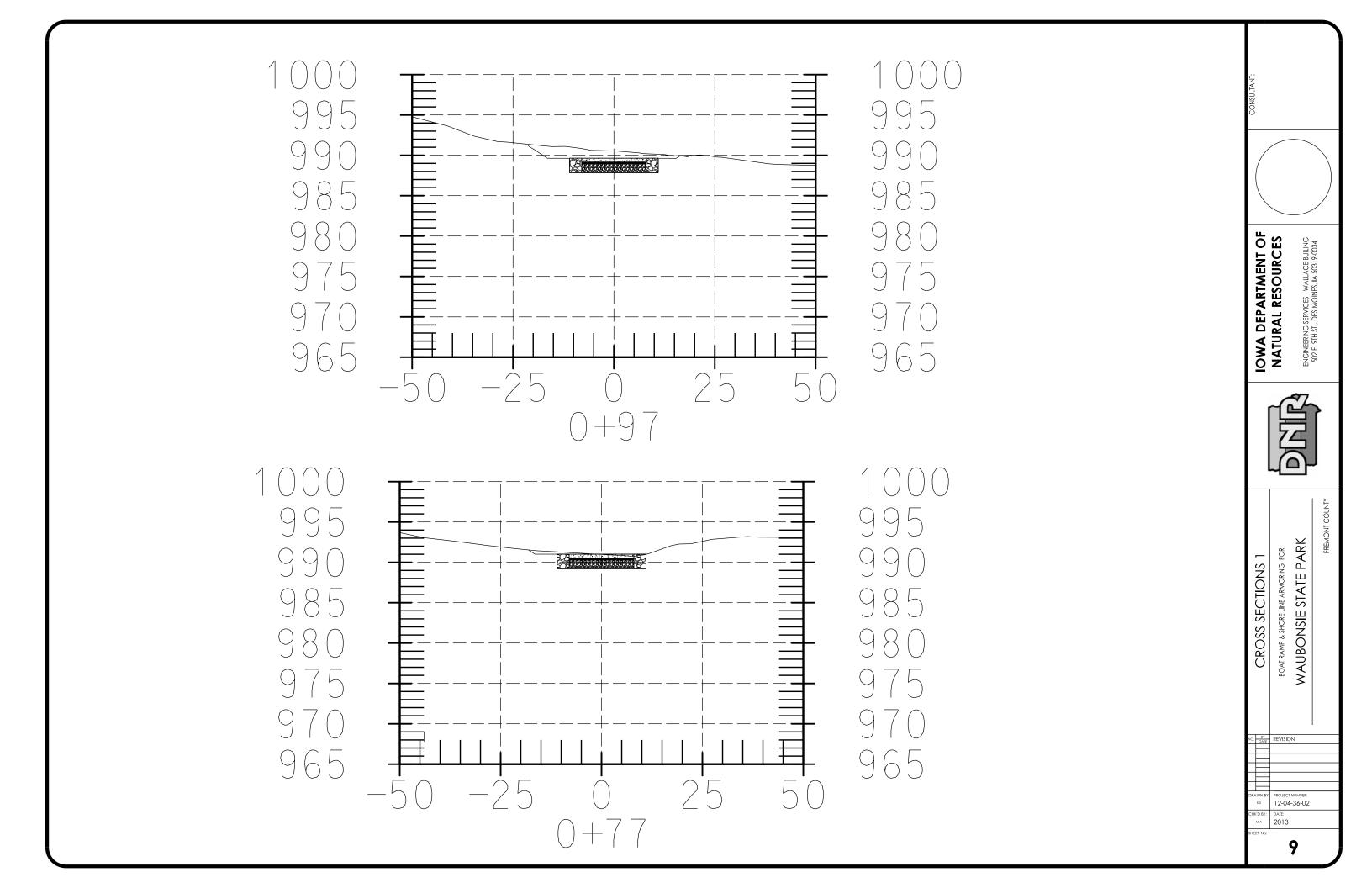


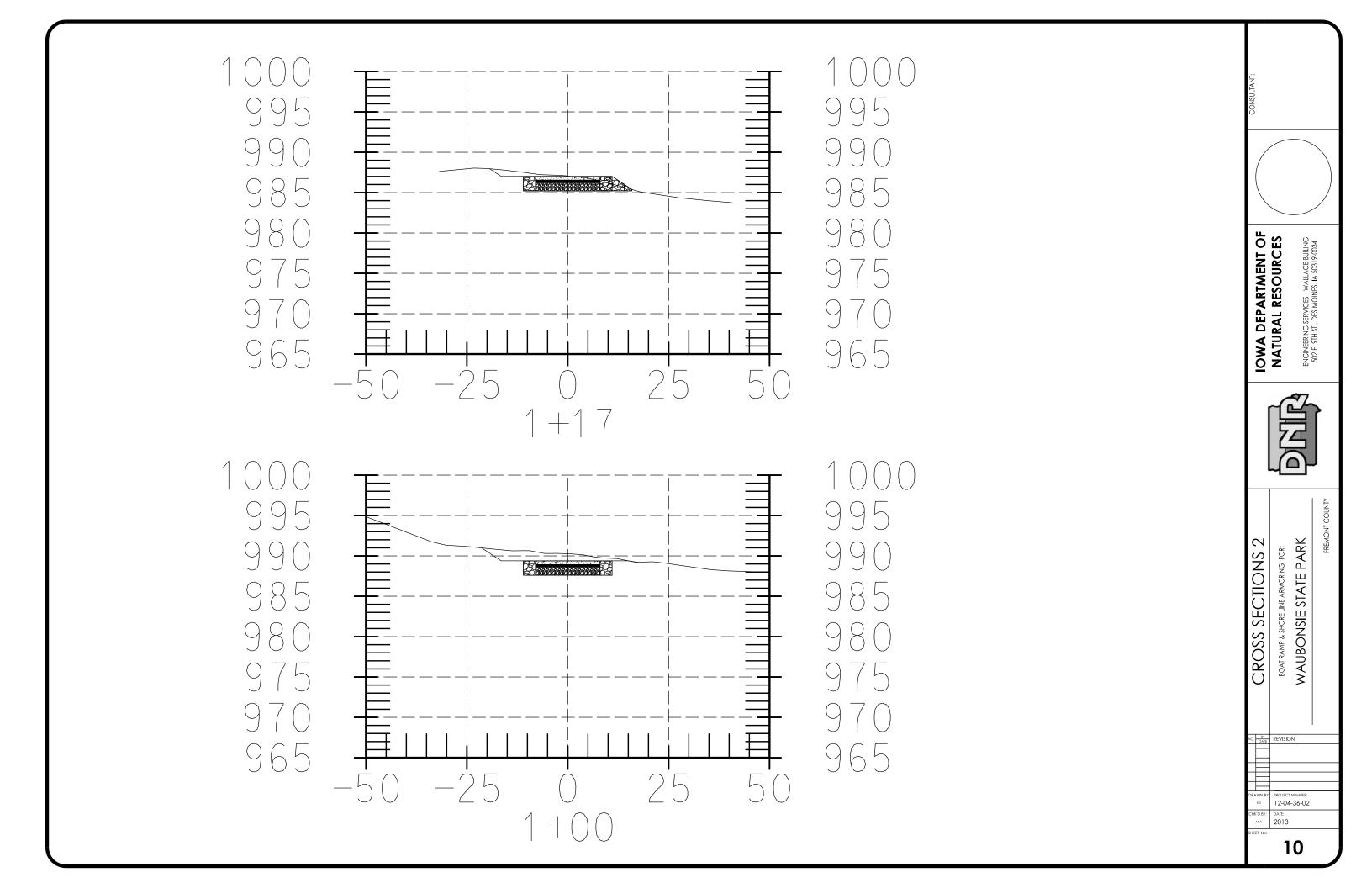
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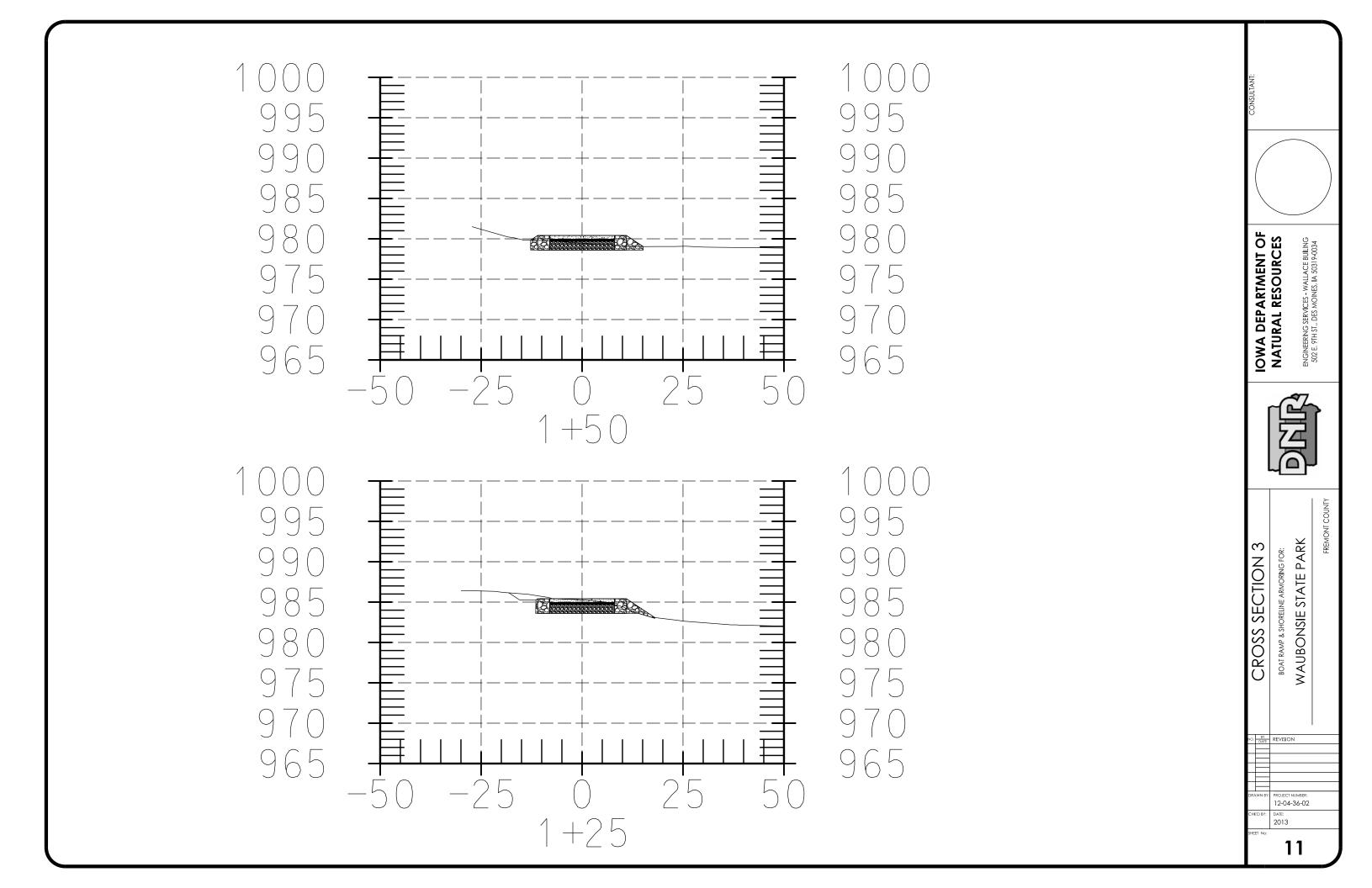


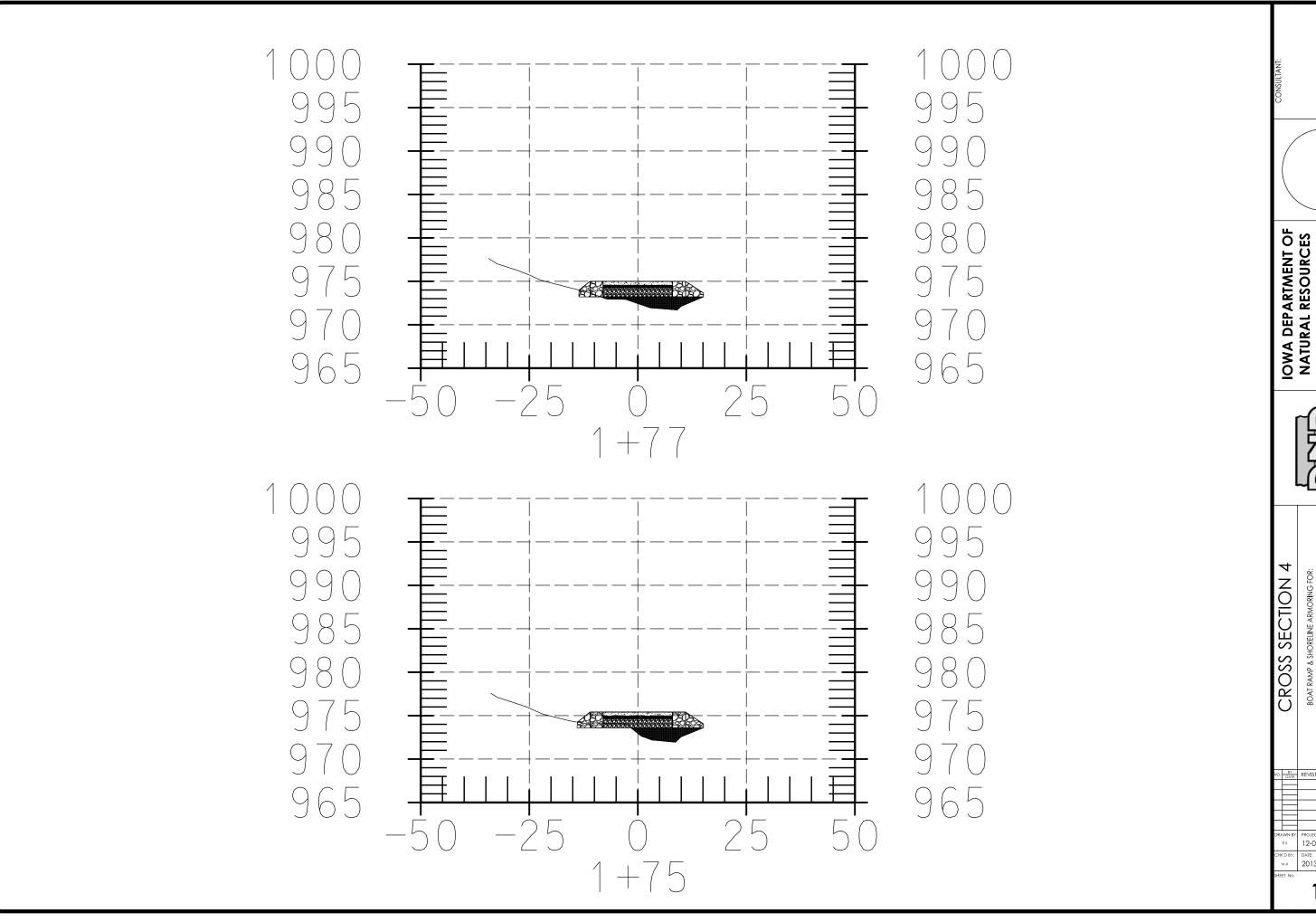
BOAT RAMP & SHORELINE ARMORING FOR WAUBONSIE STATE PARK

REVISION 12-04-36-02 DATE: 2013









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BOAT RAMP & SHORELINE ARMORING FOR: WAUBONSIE STATE PARK

12-04-36-02 2013

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